

Lactose Operon Repressor/LacI Recombinant Protein | LacI recombinant protein

Recombinant E Coli Lactose Operon Repressor/LacI Protein (His Tag)

CATALOG #
AAA22243

HOST
E Coli

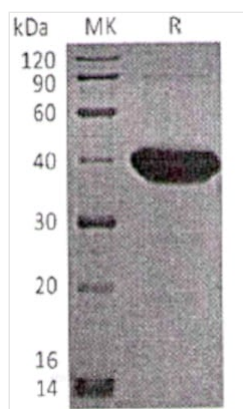
PRODUCT SYNONYMS

Lactose Operon Repressor/LacI; Recombinant E Coli Lactose Operon Repressor/LacI Protein (His Tag); Lactose operon repressor; LacI; LacI recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95 % as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH7.5, 5%trehalose, 5% mannitol, 0.01% Tween80 and 0.01% Proclin300.
Sequence	Met1-Gln360
Species	E Coli
Tag	C-His
Endotoxin	<1.0 EU per ug of the protein as determined by the LAL method.
Reconstitution	recommends centrifuging the vial before opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 1mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at <-20°C, Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at <-20C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for LacI recombinant protein

Lactose operon repressor (LacI) contains one HTH lacI-type DNA-binding domain, functions as a homotetramer. Lactose operon repressor as a repressor of the lactose operon, which also as an inducer, binds allolactose. If remove residues 1-59, resulting the loss of DNA-binding activity but retains tetrameric structure and inducer-binding activity. If delete residues 340-360, resulting the loss of tetramer formation, but retains dimer formation, inducer-binding activity, and DNA-binding activity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49176012
NCBI GeneID	12931674
NCBI Accession #	NP_414879.3
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P03023-1; O09196; P71309; Q2MC79; Q47338; AP_000997
Molecular Weight	Mol_Mass 39.4 kDa AP_Mol_Mass 40 kDa
NCBI Official Full Name	lactose-inducible lac operon transcriptional repressor
NCBI Official Symbol	lacI
NCBI Protein Information	DNA-binding transcriptional repressor
UniProt Protein Name	Lactose operon repressor
UniProt Gene Name	lacI
UniProt Entry Name	LACI_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/laci-recombinant-protein-e-coli/22243>